## REMARKS

The Non-Final Office Action, which was mailed on July 11, 2006 restricted all claims under 35 U.S.C. § 121 to three Groups (I-III) and five subgroups (A-E). Applicant was instructed to elect one Group. Accordingly, Applicant elects Group I. In addition, Applicant was instructed to elect a single disclosed species for each of subgroups (A-E). Accordingly, for subgroup A, Applicant elects the type of mutation information as "substitution" in claims 2 and 35. For subgroup B, Applicant elects the type of discrete element as "observed value" in claims 11 and 36. For subgroup C, Applicant elects claims drawn to the types of published standards in claims 15, 32, 38, and 49. For subgroup D, Applicant elects claims drawn to mutation information for "humans" in claim 26. Claims 60-64 have been cancelled so no election is made for subgroup E.

## CONCLUSION

An action on the merits is kindly solicited. If there are any additional fees associated with filing of this Response, please charge the same to our Deposit Account No. 19-2112.

Respectfully yours,

/JEAN M. DICKMAN/

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